

ABSTRACT

A process for manufacturing an electret article, comprising passing melt-extruded thermoplastic resin fibers through a mist space substantially formed from droplets of a polar liquid, and then collecting the fibers, wherein the thermoplastic resin fibers contain electrical-chargeability enhancing agents, and the average diameter of the droplets is less than 20 μm , is disclosed. Further, an apparatus for manufacturing an electric article, comprising (1) a means for melt-extruding a thermoplastic resin containing electrical-chargeability enhancing agents to form thermoplastic resin fibers; (2) a means for spraying droplets consisting essentially of a polar liquid to a space downstream of a direction of said thermoplastic resin extruded from said means for melt-extruding a thermoplastic resin, to thereby form a mist space, the average diameter of said droplets being less than 20 μm ; and (3) a means for collecting said thermoplastic resin fibers which have been passed through said mist space, is also disclosed.